Analytical Data Package Prepared For

Pacific Northwest National Lab

Radiochemical Analysis By

STL Richland STLRL

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Data Package Contains _____ Pages

Report Nbr: 34621

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05099	I07-019	B1LN79	J7A200173-1	JM5M91AA	9JM5M910	7026384
	S07-001	B1LNW1	J7A200176-1	JM5PC1AA	9JM5PC10	7026396
		B1LNV6	J7A200176-2	JM5PE1AA	9JM5PE10	7026396
	I07-016	B1LK81	J7A220119-1	JM6FX1AA	9JM6FX10	7026400
	W07-012	B1LJF6	J7A220134-1	JM6JQ1AC	9JM6JQ10	7026402
		B1LJF6	J7A220134-1	JM6JQ1AD	9JM6JQ10	7026396
		B1LJF6	J7A220134-1	JM6JQ2AA	9JM6JQ20	7026401
		B1LJH1	J7A220134-2	JM6J21AA	9JM6J210	7026396
		B1LJ93	J7A230123-1	JM7NK1AA	9JM7NK10	7026396
	I07-021	B1LPJ8	J7A230125-1	JM7PP1AA	9JM7PP10	7026384
	S07-001	B1LNM1	J7A230129-1	JM71V1AA	9JM71V10	7026384
		B1LNM2	J7A230129-2	JM72X1AA	9JM72X10	7026384
	A07-001	B1LN27	J7A230163-1	JM7311AA	9JM73110	7026400
		B1LN27	J7A230163-1	JM7311AC	9JM73110	7026396
		B1LN35	J7A230163-2	JM7381AA	9JM73810	7026385

Comments:

Report Nbr: 34621

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05099	A07-001	B1LN35	J7A230163-2	JM7381AC	9JM73810	7026400
		B1LN35	J7A230163-2	JM7381AD	9JM73810	7026396
		B1LN38	J7A230163-3	JM74E1AA	9JM74E10	7026385
		B1LN38	J7A230163-3	JM74E1AC	9JM74E10	7026400
		B1LN38	J7A230163-3	JM74E1AD	9JM74E10	7026396
		B1LN42	J7A230163-4	JM7401AA	9JM74010	7026385
		B1LN42	J7A230163-4	JM7401AC	9JM74010	7026400
		B1LN42	J7A230163-4	JM7401AD	9JM74010	7026396
		B1LN42	J7A230163-4	JM7401AE	9JM74010	7026383
		B1LN43	J7A230163-5	JM7421AA	9JM74210	7026385
		B1LN43	J7A230163-5	JM7421AC	9JM74210	7026400
		B1LN43	J7A230163-5	JM7421AD	9JM74210	7026396
		B1LN43	J7A230163-5	JM7421AE	9JM74210	7026383
	W07-011	B1L6J0	J7A230259-1	JM8V01AA	9JM8V010	7026382
		B1L6D8	J7A230259-1	JM8V21AA	9JM8V210	7026382
		B1L6H6	J7A230259-1	JM8VH1AA	9JM8VH10	7026382

Comments:

SEVERN TRENT STL

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Certificate of Analysis

Pacific Northwest National Laboratories
Sigma V Building
Richland, WA 99352

March 8, 2007

Attention: Dot Stewart

SAF Number	:	A07-001, S07-001, W07-011, I07-021, I07-019, I07-016, W07-012
Date SDG Closed	:	January 22, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05099
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between January 18, 2007 and January 22, 2007, twenty one water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Pacific Northwest National Laboratories (PGW) specific IDs:

PGW ID#	STLR ID#	MATRIX	DATE OF RECEIPT
B1LN79	JM5M9	WATER	1/18/07
B1LNW1	JM5PC	WATER	1/18/07
B1LNV6	JM5PE	WATER	1/18/07
B1LK81	JM6FX	WATER	1/19/07
B1LJF9	JM6JQ	WATER	1/19/07
B1LJHI	JM6J2	WATER	1/19/07
B1LJ93	JM7NK	WATER	1/22/07
B1LPJ8	JM7PP	WATER	1/22/07
B1LNM1	JM71V	WATER	1/22/07
B1LNM2	JM72X	WATER	1/22/07
B1LN27	JM731	WATER	1/22/07
B1LN35	JM738	WATER	1/22/07

B1LN38	JM74E	WATER	1/22/07
B1LN42	JM740	WATER	1/22/07
B1LN43	JM742	WATER	1/22/07
B1L6H6	JM8VH	WATER	1/23/07
B1L6J0	JM8V0	WATER	1/23/07
B1L6D8	JM8V2	WATER	1/23/07
B1LBT8	JM820	WATER	1/23/07
B1LC67	JM822	WATER	1/23/07

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors.

The requested analyses were:

Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Enriched Tritium by method RICH-RC-5024
Technetium-99 by TEVA method RICH-RC-5065
Tritium by method RICH-RC-5007
Laser Induced Phosphorimetry
Total Uranium by method RICH-RC-5058

IV. Quality Control

The analytical results for each analysis performed includes a minimum of one laboratory control sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section.

QC and sample results are reported in the same units.

V. Comments

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:
In the original batch the duplicate was out. It was rerun with good results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1LJF9) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
The sample and the duplicate have extremely high results due to high dissolved solids. Except as noted, the LCS, batch blank, samples and sample duplicate (B1LJF9) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
The LCS, batch blank, samples and sample duplicate (B1LNM1) results are within contractual requirements.

Gamma Spectroscopy

Iodine-129 (LL) by method RICH-RC-5025:
The LCS, batch blank, samples and sample duplicate (B1LN27) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065:
The LCS, batch blank, samples, sample duplicate (B1LN35), and sample matrix spike (B1LN27) results are within contractual requirements.

Tritium by method RICH-RC-5007:
The LCS, batch blank, samples and sample duplicate (B1LN35) results are within contractual requirements.

Enriched Tritium by method RICH-RC-5024
The enriched tritium analysis was not completed at the time of reporting.

Total Uranium

Total Uranium by method RICH-RC-5058:
The LCS, batch blank, samples, sample duplicate (B1LN43), and sample matrix spike (B1LN42) results are within contractual requirements.

Chemical Analysis

Total Coliform by method 9223
The LCS, batch blank, samples and sample duplicate (B1L6J0) results are within contractual requirements.

Pacific Northwest National Laboratories
March 8, 2007

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the following signature.

Reviewed and approved:

Sherryl A. Adam
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**STL Richland's SOP number**
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr89/90	RICH-RC-5006
ASTM D2460	Total Radium	RICH-RC-5027
Standard Method 7500-U-C & ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007
NOTE:		
The Gross Alpha LCS is prepared with Am-241 (unless otherwise specified in the case narrative)		
The Gross Beta LCS is prepared with Sr/Y-90 (unless otherwise specified in the case narrative)		

Uncertainty Estimation

STL Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/vn), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or STL Richland.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) *u_c - Combined Uncertainty.*	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, *u_c the combined uncertainty.* The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or STL Richland "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by STL Richland upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34621 File Name: h:\Reportdb\edd\FeadIV\Rad\W05099.Edd, h:\Reportdb\edd\FeadIV\Rad\34621.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JM5M910	B1LN79		MW6-SBB-A1	I07-019	W05099					01/18/2007 12:54

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7026384	SR-90	10098-97-2	2.14E+02	pCi/L	3.3E+00	3.1E+01		4.57E-01	72.5	SRISO_SEP_PRE	1.0035E+00	L	02/11/2007 09:25	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JM5PC10	B1LNW1		MW6-SBB-A1	S07-001	W05099					01/18/2007 12:54

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7026396	TC-99	14133-76-7	1.66E+00	pCi/L	4.0E+00	5.7E+00	U	9.65E+00	100.0	TC99_ETVDSK_LS	1.252E-01	L	02/03/2007 15:12	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JM5PE10	B1LNV6		MW6-SBB-A1	S07-001	W05099					01/18/2007 11:14

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7026396	TC-99	14133-76-7	1.09E+01	pCi/L	4.4E+00	6.3E+00		9.71E+00	100.0	TC99_ETVDSK_LS	1.263E-01	L	02/03/2007 15:12	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JM6FX10	B1LK81		MW6-SBB-A1	I07-016	W05099					01/19/2007 13:21

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7026400	I-129L	15046-84-1	1.05E-01	pCi/L	1.5E-01	1.5E-01	U	2.95E-01	100.3	I129LL_SEP_LEPS	3.9541E+00	L	02/21/2007 14:34	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JM6J210	B1LJH1		MW6-SBB-A1	W07-012	W05099					01/19/2007 10:20

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7026396	TC-99	14133-76-7	2.38E+00	pCi/L	4.1E+00	5.8E+00	U	9.69E+00	100.0	TC99_ETVDSK_LS	1.249E-01	L	02/03/2007 15:12	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JM6JQ10	B1LJF6		MW6-SBB-A1	W07-012	W05099					01/19/2007 09:09

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7026402	BETA	12587-47-2	1.07E+04	pCi/L	6.1E+01	1.4E+03		5.04E+00	100.0	9310_ALPHABETA	1.251E-01	L	02/13/2007 14:56	I
7026396	TC-99	14133-76-7	4.63E+04	pCi/L	1.2E+02	3.1E+03		9.67E+00	100.0	TC99_ETVDSK_LS	1.25E-01	L	02/03/2007 15:12	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JM6JQ20	B1LJF6		MW6-SBB-A1	W07-012	W05099					01/19/2007 09:09

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34621 File Name: h:\Reportdb\edd\FeadIV\Rad\W05099.Edd, h:\Reportdb\edd\FeadIV\Rad\34621.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7026401	ALPHA	12587-46-1	4.70E+00	pCi/L	1.9E+00	2.2E+00		1.86E+00	100.0	9310_ALPHABETA	1.108E-01	L	02/14/2007 11:53	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JM71V10	B1LNM1		MW6-SBB-A1	S07-001	W05099					01/22/2007 12:53

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7026384	SR-90	10098-97-2	1.50E+01	pCi/L	8.8E-01	2.3E+00		4.37E-01	75.4	SRISO_SEP_PRE	1.0062E+00	L	02/11/2007 09:25	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JM72X10	B1LNM2		MW6-SBB-A1	S07-001	W05099					01/22/2007 12:53

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7026384	SR-90	10098-97-2	1.50E+01	pCi/L	8.2E-01	2.3E+00		3.94E-01	79.6	SRISO_SEP_PRE	1.0051E+00	L	02/11/2007 09:20	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JM73110	B1LN27		MW6-SBB-A1	A07-001	W05099					01/22/2007 13:25

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7026400	I-129L	15046-84-1	-6.85E-02	pCi/L	1.5E-01	1.5E-01	U	2.65E-01	97.0	I129LL_SEP_LEPS	3.9176E+00	L	02/21/2007 14:39	I
7026396	TC-99	14133-76-7	1.99E+02	pCi/L	8.6E+00	1.9E+01		9.62E+00	100.0	TC99_ETVDSK_LS	1.26E-01	L	02/03/2007 15:12	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JM73810	B1LN35		MW6-SBB-A1	A07-001	W05099					01/22/2007 12:05

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7026385	H-3	10028-17-8	1.36E+03	pCi/L	1.7E+02	2.0E+02		2.94E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/03/2007 20:32	I
7026400	I-129L	15046-84-1	-1.21E-01	pCi/L	1.4E-01	1.4E-01	U	2.24E-01	100.0	I129LL_SEP_LEPS	3.919E+00	L	02/21/2007 16:25	I
7026396	TC-99	14133-76-7	1.40E+02	pCi/L	7.5E+00	1.5E+01		9.46E+00	100.0	TC99_ETVDSK_LS	1.28E-01	L	02/03/2007 15:12	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JM74010	B1LN42		MW6-SBB-A1	A07-001	W05099					01/22/2007 11:39

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7026385	H-3	10028-17-8	1.65E+03	pCi/L	1.8E+02	2.1E+02		2.93E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/04/2007 00:37	I
7026400	I-129L	15046-84-1	-7.92E-02	pCi/L	9.8E-02	9.8E-02	U	1.61E-01	96.8	I129LL_SEP_LEPS	3.8424E+00	L	02/21/2007 16:30	I
7026396	TC-99	14133-76-7	3.43E+02	pCi/L	1.1E+01	2.9E+01		9.64E+00	100.0	TC99_ETVDSK_LS	1.25E-01	L	02/03/2007 15:12	I
7026383	Uranium	7440-61-1	2.13E+01	ug/L	2.6E+00	2.6E+00		8.25E-02		UTOT_KPA	2.54E-02	ML	02/28/2007 14:34	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34621 File Name: h:\Reportdb\edd\FeadIV\Rad\W05099.Edd, h:\Reportdb\edd\FeadIV\Rad\34621.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JM74210	B1LN43		MW6-SBB-A1	A07-001	W05099					01/22/2007 08:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7026385	H-3	10028-17-8	3.08E+02	pCi/L	1.3E+02	1.5E+02		2.96E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/04/2007 01:59	I
7026400	I-129L	15046-84-1	-7.19E-02	pCi/L	1.6E-01	1.6E-01	U	2.82E-01	97.0	I129LL_SEP_LEPS	3.8244E+00	L	02/21/2007 18:16	I
7026396	TC-99	14133-76-7	6.44E-01	pCi/L	4.0E+00	5.6E+00	U	9.60E+00	100.0	TC99_ETVDSK_LS	1.257E-01	L	02/03/2007 15:12	I
7026383	Uranium	7440-61-1	9.65E-04	ug/L	7.8E-04	7.8E-04	U	8.22E-02		UTOT_KPA	2.55E-02	ML	02/28/2007 14:38	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JM74E10	B1LN38		MW6-SBB-A1	A07-001	W05099					01/22/2007 10:44

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7026385	H-3	10028-17-8	1.70E+03	pCi/L	1.8E+02	2.1E+02		2.93E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/03/2007 23:15	I
7026400	I-129L	15046-84-1	1.12E-01	pCi/L	1.5E-01	1.5E-01	U	2.96E-01	97.8	I129LL_SEP_LEPS	3.9099E+00	L	02/21/2007 16:29	I
7026396	TC-99	14133-76-7	1.12E+02	pCi/L	7.0E+00	1.3E+01		9.64E+00	100.0	TC99_ETVDSK_LS	1.25E-01	L	02/03/2007 15:12	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JM7NK10	B1LJ93		MW6-SBB-A1	W07-012	W05099					01/22/2007 10:06

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7026396	TC-99	14133-76-7	1.34E+02	pCi/L	7.4E+00	1.5E+01		9.68E+00	100.0	TC99_ETVDSK_LS	1.253E-01	L	02/03/2007 15:12	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JM7PP10	B1LPJ8		MW6-SBB-A1	I07-021	W05099					01/22/2007 13:25

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7026384	SR-90	10098-97-2	6.74E-02	pCi/L	2.0E-01	2.0E-01	U	4.26E-01	82.2	SRISO_SEP_PRE	1.0006E+00	L	02/11/2007 09:25	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05099.Edd, h:\Reportdb\edd\FeadIV\Rad\34621.Edd

Lab Sample Id:	JNG061AB	**Sdg/Rept Nbr:**	W05099	34621	**Collection Date:** 01/22/2007 13:25
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 01/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								AZ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026396	TC-99	4.49E-01	pCi/L	3.5E+00	U	6.09E+00	100.0		TC99_ETVDSK	2.021E-01	02/03/2007				D
BLK	14133-76-7			2.5E+00						L	15:12				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05099.Edd, h:\Reportdb\edd\FeadIV\Rad\34621.Edd

Lab Sample Id:	JNG081AB	**Sdg/Rept Nbr:**	W05099	34621	**Collection Date:** 01/22/2007 13:25
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 01/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BB	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026400	I-129L	-5.70E-02	pCi/L	1.3E-01	U	2.32E-01	98.1		I129LL_SEP_L	3.9978E+00	02/21/2007				D
BLK	15046-84-1			1.3E-01						L	18:22				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JNG091AB **Sdg/Rept Nbr:** W05099 34621 **Collection Date:** 01/19/2007 09:09

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 01/19/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BD	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026401	ALPHA	-1.39E-01	pCi/L	2.3E-01	U	7.39E-01	100.0		9310_ALPHAB	2.028E-01	02/13/2007				D
BLK	12587-46-1			2.3E-01						L	15:05				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05099.Edd, h:\Reportdb\edd\FeadIV\Rad\34621.Edd

Lab Sample Id:	JNG0E1AB	**Sdg/Rept Nbr:**	W05099	34621	**Collection Date:** 01/22/2007 12:05
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 01/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BF	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026385	H-3	5.68E+01	pCi/L	1.4E+02	U	2.94E+02	100.0		906.0_H3_LSC	5.00E-03	02/03/2007				D
BLK	10028-17-8			1.2E+02						L	15:05				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id:	JNG0E1DX	**Sdg/Rept Nbr:**	W05099	34621	**Collection Date:** 01/22/2007 12:05
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 01/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BH	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026385	H-3	1.01E+02	pCi/L	1.4E+02	U	2.98E+02	100.0		906.0_H3_LSC	5.00E-03	02/03/2007				D
BLK	10028-17-8			1.3E+02						L	17:49				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id:	JNG1A1AB	**Sdg/Rept Nbr:**	W05099	34621	**Collection Date:** 01/19/2007 09:09
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 01/19/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BJ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026402	BETA	3.40E+00	pCi/L	1.5E+00		2.49E+00	100.0		9310_ALPHAB	2.003E-01	02/13/2007				D
BLK	12587-47-2			1.4E+00						L	14:56				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05099.Edd, h:\Reportdb\edd\FeadIV\Rad\34621.Edd

Lab Sample Id:	JNGX31AB	**Sdg/Rept Nbr:**	W05099	34621	**Collection Date:** 01/22/2007 12:53
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 01/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BL	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026384	SR-90	4.89E-02	pCi/L	1.9E-01	U	4.18E-01	77.8		SRISO_SEP_P	1.0004E+00	02/11/2007				D
BLK	10098-97-2			1.9E-01						L	09:20				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05099.Edd, h:\Reportdb\edd\FeadIV\Rad\34621.Edd

Lab Sample Id:	JNGXV1AB	**Sdg/Rept Nbr:**	W05099	34621	**Collection Date:** 01/22/2007 11:39
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 01/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BN	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026383	Uranium	2.30E-03	ug/L	6.6E-04	U	8.25E-02			UTOT_KPA	2.54E-02	02/28/2007				D
BLK	7440-61-1			6.6E-04						ML	14:16				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JNG061CS **Sdg/Rept Nbr:** W05099 34621 **Collection Date:** 01/22/2007 13:25

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BA	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026396	TC-99	3.25E+02	pCi/L	2.5E+01		6.00E+00	100.0	3.31E+02	TC99_ETVDSK	2.017E-01	02/03/2007			70	D
BS	14133-76-7			8.1E+00				98.0		L	15:12			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05099.Edd, h:\Reportdb\edd\FeadIV\Rad\34621.Edd

Lab Sample Id:	JNG081CS	**Sdg/Rept Nbr:**	W05099	34621	**Collection Date:** 01/22/2007 13:25
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 01/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BC	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026400	I-129L	7.52E+00	pCi/L	1.0E+00		3.74E-01	97.6	9.96E+00	I129LL_SEP_L	3.8701E+00	02/21/2007			70	D
BS	15046-84-1			1.0E+00				75.5		L	18:22			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JNG091CS **Sdg/Rept Nbr:** W05099 34621 **Collection Date:** 01/19/2007 09:09

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/19/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BE	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026401	ALPHA	2.00E+01	pCi/L	5.0E+00		6.14E-01	100.0	2.20E+01	9310_ALPHAB	2.05E-01	02/13/2007			70	D
BS	12587-46-1			2.0E+00				90.7		L	15:05			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JNG0E1CS **Sdg/Rept Nbr:** W05099 34621 **Collection Date:** 01/22/2007 12:05

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BG	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026385	H-3	2.63E+03	pCi/L	2.5E+02		2.94E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	02/03/2007			70	D
BS	10028-17-8			2.0E+02				96.9		L	16:27			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JNG0E1EM **Sdg/Rept Nbr:** W05099 34621 **Collection Date:** 01/22/2007 12:05

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BI	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026385	H-3	2.46E+03	pCi/L	2.4E+02		2.97E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	02/03/2007			70	D
BS	10028-17-8			2.0E+02				90.9		L	19:10			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05099.Edd, h:\Reportdb\edd\FeadIV\Rad\34621.Edd

Lab Sample Id:	JNG1A1CS	**Sdg/Rept Nbr:**	W05099	34621	**Collection Date:** 01/19/2007 09:09
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 01/19/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BK	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026402	BETA	2.23E+01	pCi/L	3.7E+00		2.53E+00	100.0	2.24E+01	9310_ALPHAB	2.002E-01	02/13/2007			70	D
BS	12587-47-2			2.4E+00				99.4		L	14:56			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JNGX31CS **Sdg/Rept Nbr:** W05099 34621 **Collection Date:** 01/22/2007 12:53

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BM	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026384	SR-90	1.41E+01	pCi/L	2.2E+00		4.75E-01	70.2	1.35E+01	SRISO_SEP_P	9.992E-01	02/11/2007			70	D
BS	10098-97-2			8.6E-01				104.5		L	09:20			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05099.Edd, h:\Reportdb\edd\FeadIV\Rad\34621.Edd

Lab Sample Id:	JNGXV1CS	**Sdg/Rept Nbr:**	W05099	34621	**Collection Date:** 01/22/2007 11:39
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BS**		**Received Date:** 01/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BO	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026383	Uranium	3.35E+01	ug/L	4.1E+00		8.32E-02		3.54E+01	UTOT_KPA	2.52E-02	02/28/2007			70	D
BS	7440-61-1			4.1E+00				94.6		ML	14:29			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JNGXV1DS **Sdg/Rept Nbr:** W05099 34621 **Collection Date:** 01/22/2007 11:39

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BP	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026383	Uranium	3.69E+00	ug/L	3.8E-01		8.28E-02		3.58E+00	UTOT_KPA	2.53E-02	02/28/2007			70	D
BS	7440-61-1			3.8E-01				103.0		ML	14:31			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id:	JM6JQ1FR	**Sdg/Rept Nbr:**	W05099	34621	**Collection Date:** 01/19/2007 09:09
Client Id:	B1LJF6	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 01/19/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-012	MW6-SBB-A19981								AQ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026402	BETA	1.06E+04	pCi/L	1.3E+03		4.75E+00	100.0		9310_ALPHAB	1.251E-01	02/13/2007	.8	0.1		D
DUP	12587-47-2	1.07E+04		6.1E+01						L	14:56	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JM6JQ2ER **Sdg/Rept Nbr:** W05099 34621 **Collection Date:** 01/19/2007 09:09

Client Id: B1LJF6 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 01/19/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-012	MW6-SBB-A19981								AR	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026401	ALPHA	6.79E+00	pCi/L	2.7E+00		2.27E+00	100.0		9310_ALPHAB	1.134E-01	02/14/2007	36.3	1.1		D
DUP	12587-46-1	4.70E+00		2.2E+00						L	11:53	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id:	JM71V1CR	**Sdg/Rept Nbr:**	W05099	34621	**Collection Date:** 01/22/2007 12:53
Client Id:	B1LNM1	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 01/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-001	MW6-SBB-A19981								AS	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026384	SR-90	1.40E+01	pCi/L	2.2E+00		3.62E-01	86.2		SRISO_SEP_P	1.0074E+00	02/11/2007	6.6	0.6		D
DUP	10098-97-2	1.50E+01		7.7E-01						L	09:20	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id:	JM7311ER	**Sdg/Rept Nbr:**	W05099	34621	**Collection Date:** 01/22/2007 13:25
Client Id:	B1LN27	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 01/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A07-001	MW6-SBB-A19981								AU	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026400	I-129L	4.69E-03	pCi/L	1.4E-01	U	2.62E-01	94.9		I129LL_SEP_L	3.9024E+00	02/21/2007	0.0	0.7		D
DUP	15046-84-1	-6.85E-02		1.4E-01						L	14:39	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JM7381ER **Sdg/Rept Nbr:** W05099 34621 **Collection Date:** 01/22/2007 12:05

Client Id: B1LN35 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 01/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A07-001	MW6-SBB-A19981								AV	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026385	H-3	1.21E+03	pCi/L	1.9E+02		2.93E+02	100.0		906.0_H3_LSC	5.00E-03	02/03/2007	11.9	1.1		D
DUP	10028-17-8	1.36E+03		1.6E+02						L	21:54	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id:	JM7381FR	**Sdg/Rept Nbr:**	W05099	34621	**Collection Date:** 01/22/2007 12:05
Client Id:	B1LN35	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 01/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A07-001	MW6-SBB-A19981								AW	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026396	TC-99	1.33E+02	pCi/L	1.5E+01		9.70E+00	100.0		TC99_ETVDSK	1.249E-01	02/03/2007	5.2	0.7		D
DUP	14133-76-7	1.40E+02		7.4E+00						L	15:12	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JM7421FR **Sdg/Rept Nbr:** W05099 34621 **Collection Date:** 01/22/2007 08:00

Client Id: B1LN43 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 01/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A07-001	MW6-SBB-A19981								AY	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026383	Uranium	1.98E-02	ug/L	2.2E-03	U	7.68E-02			UTOT_KPA	2.73E-02	02/28/2007	181.5	12.1		D
DUP	7440-61-1	9.65E-04		2.2E-03						ML	15:46	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id:	JM7311DW	**Sdg/Rept Nbr:**	W05099	34621	**Collection Date:** 01/22/2007 13:25
Client Id:	B1LN27	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	MS		**Received Date:** 01/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A07-001	MW6-SBB-A19981								AT	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026396	TC-99	3.38E+03	pCi/L	2.5E+02		9.55E+00	100.0	3.57E+03	TC99_ETVDSK	1.267E-01	02/03/2007			60	D
MS	14133-76-7			3.2E+01				94.5		L	15:12			140	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JM7401FW **Sdg/Rept Nbr:** W05099 34621 **Collection Date:** 01/22/2007 11:39

Client Id: B1LN42 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** MS **Received Date:** 01/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A07-001	MW6-SBB-A19981								AX	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7026383	Uranium	3.49E+01	ug/L	7.3E+00		8.45E-02		3.61E+01	UTOT_KPA	2.48E-02	02/28/2007			60	D
MS	7440-61-1			7.3E+00				96.7		ML	14:36			140	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

FormN	FormS	Recd	FormatTy	Versio	SampleNbr	Contract	LabCode	LabC	Case	SAS	SDGNbr
W	AA	H	FEAD	05	B1L6J0	MW6-SBB-A19981	STLRL				W05099
W	AB	H	FEAD	05	B1L6D8	MW6-SBB-A19981	STLRL				W05099
W	AC	H	FEAD	05	B1L6H6	MW6-SBB-A19981	STLRL				W05099
W	AD	H	FEAD	05	B1L6J0 DUP	MW6-SBB-A19981	STLRL				W05099
W	AE	H	FEAD	05	NA	MW6-SBB-A19981	STLRL				W05099
W	AF	H	FEAD	05	NA	MW6-SBB-A19981	STLRL				W05099

AnalyticalMatrix	LabReceivedDate	CollectedDate	PercentSd	Decante	LabSampleId	LabFileId	SafNbr
WATER	01/23/2007	01/23/2007			9JM8V010		
WATER	01/23/2007	01/23/2007			9JM8V210		
WATER	01/23/2007	01/23/2007			9JM8VH10		
WATER	01/23/2007	01/23/2007			JM8V01ER		
WATER	01/23/2007				JNGXQAB		
WATER	01/23/2007				JNGXQAC		

CollectedTime	PercentM	Filename	SpecificMat
09:51		h:\Reportdb\edd\FeadIV\Wet\W0509	
09:01		h:\Reportdb\edd\FeadIV\Wet\W0509	
10:36		h:\Reportdb\edd\FeadIV\Wet\W0509	
09:51		h:\Reportdb\edd\FeadIV\Wet\W0509	
		h:\Reportdb\edd\FeadIV\Wet\W0509	
		h:\Reportdb\edd\FeadIV\Wet\W0509	

FormNbr	FormSuffix	RecordType	CASNbr	Isotope	Result
W	AA	D	COLIFORM	COLIFORM	+1.00E+00
W	AB	D	COLIFORM	COLIFORM	+1.00E+00
W	AC	D	COLIFORM	COLIFORM	+1.00E+00
W	AD	D	COLIFORM	COLIFORM	+1.00E+00
W	AE	D	COLIFORM	COLIFORM	+1.00E+00
W	AE	D	COLIFORM	COLIFORM	+1.35E+01

OrigResult	ConcentrationUr	ActionCode	AnalysisMethod	SampleAliquotS	SampleAliquotU
	Col/100ml		9223 COLIFO	+1.00E+02	ML
	Col/100ml		9223 COLIFO	+1.00E+02	ML
	Col/100ml		9223 COLIFO	+1.00E+02	ML
	Col/100ml		9223 COLIFO	+1.00E+02	ML
	Col/100ml		9223 COLIFO	+1.00E+02	ML
	Col/100ml		9223 COLIFO	+1.00E+02	ML

LabQualifier	DilutionFactor	DateAnalyzed	TimeAnalyzed	BatchNbr	QcType
U	1	01/23/2007	14:33	7026382	
UJ1	1	01/23/2007	14:33	7026382	
U	1	01/23/2007	14:33	7026382	
U	1	01/23/2007	14:35	7026382	DUP
U	1	01/23/2007	14:36	7026382	BLK
	1	01/23/2007	14:36	7026382	BS

SpikeConc	PercentRecover	Rpd	RpdMaximum	Rpd_UCL	LCSMS_LCL
		0			

LCS_UCL	TracerYield	DetectionLimit	RL	RLType	CommentCode
		1.00E+00	1.00E+00	RDL	
		1.00E+00	1.00E+00	RDL	
		1.00E+00	1.00E+00	RDL	
		1.00E+00	1.00E+00	RDL	
		1.00E+00	1.00E+00	RDL	
		1.00E+00	1.00E+00	RDL	

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/14/2007 1:27:04 PM

Lot No., Due Date: J7A220134; 03/05/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7026401; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05099; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => JM6JQ1AA 110.80<200.00 JM6JQ2AA 110.80<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> JM6JQ1AE ALPHA 53.0 JM6JQ2AE ALPHA 44.0 (RPD)		✓	
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => JM6JQ1AA ALPHA 4.3E+00 L:2.1E+00 JM6JQ2AA ALPHA 4.7E+00 L:1.9E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => ALPHA OK; No Callin Level Found => ALPHA	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		

NCM 10-09446

8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!	Yes	No	N/A ✓
8.26 Instruments have Current Calibrations.	Yes	No	N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Yes	No	N/A ✓
8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.3 Comments:			
8.31 Results Blank Subtracted as Appropriate. OK	Yes ✓	No	N/A

First Level Review Pam Andersen **Date** 2-14-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7026401
WO 5099

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	/		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	/		
3. Are the correct isotopes reported?	/		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	/		
2. Does the blank result meet the Contract criteria?	/		
3. Is the blank result < the Contract Detection Limit?	/		
4, Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			/
5. Is the LCS recovery with contract acceptance criteria?	/		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	/		
8. Do the MS/MSD results and yields meet acceptance criteria?	/		
9. Do the duplicate sample results and yields meet acceptance criteria?	/		
C. Other 1. Are all Nonconformances included and noted?	/		
2. Are all required forms filled out?	/		
3. Was the correct methodology used?	/		
4. Was transcription checked?	/		
5. Were all calculations checked at a minimum frequency?	/		
6. Were units checked?	/		

Comments on any "No" response: See NCM

Second Level Review: Cheryl A Adam Date: 2-20-07

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: 10-09446
NCM Initiated By: Pam Anderson
Date Opened: 02/14/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: Alpha by GPC-Am
Lot #'s (Sample #'s): J7A220134 (1),
QC Batches: 7026401

Nonconformance: Other (describe in detail)
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
Pam Anderson	02/14/2007	The dupicate in this alpha in water batch was out. A recount brings the sample and duplicate in agreement.

Corrective Action

Name	Date	Corrective Action
Pam Anderson	02/14/2007	The sample and duplicate were recounted.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note
	Response	Response Note			

Quality Assurance Verification

Verified By	Due Date	Status	Notes
		This section not yet completed by QA.	

Approval History

Date Approved	Approved By	Position

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/14/2007 12:33:06 PM

Lot No., Due Date: J7A220134; 03/05/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7026402; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05099; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => JM6JQ1AC 125.10<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. MDC/MDA > CRDL => JM6JQ1AC BETA 5.0E+00>4.0E+00 JM6JQ1AF BETA 4.8E+00>4.0E+00 Q:C1		✓	
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => JM6JQ1AC BETA 1.1E+04 L:5.0E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => BETA OK; No Callin Level Found => BETA	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

NCM # 10-09495

	Yes	No	N/A
8.26 Instruments have Current Calibrations.			
8.27 Correct Count Library Used. No Count Library found in Batch Data!			✓
8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions.)			
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions.)			
8.3 Comments:			
8.31 Results Blank Subtracted as Appropriate. OK	✓		

First Level Review Pam Anderson **Date** 2-14-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7026402
W05099

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	/		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	/		
3. Are the correct isotopes reported?	/		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	/		
2. Does the blank result meet the Contract criteria?	/		
3. Is the blank result < the Contract Detection Limit?	/		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			
5. Is the LCS recovery with contract acceptance criteria?	/		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	/		
8. Do the MS/MSD results and yields meet acceptance criteria?	/		
9. Do the duplicate sample results and yields meet acceptance criteria?	/		
C. Other 1. Are all Nonconformances included and noted?	/		
2. Are all required forms filled out?	/		
3. Was the correct methodology used?	/		
4. Was transcription checked?	/		
5. Were all calculations checked at a minimum frequency?	/		
6. Were units checked?	/		

Comments on any "No" response: See NCM

Second Level Review: Sheryl A Adam Date: 2-20-07

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: 10-09445
NCM Initiated By: Pam Anderson
Date Opened: 02/14/2007
Date Closed:

Classification: Anomaly
Status: GLREVIEW
Production Area: Environmental - Sep
Tests: Beta by GPC-Sr/Y
Lot #'s (Sample #'s): J7A220134 (1), J7A260000 (402),
QC Batches: 7026402

Nonconformance: Blank result above Contract Limit
Subcategory: Matrix effect

Problem Description / Root Cause

Name	Date	Description
Pam Anderson	02/14/2007	The blank in this beta batch of water is above 1/2 CRDL but below CRDL. The sample and duplicate in the batch have extremely high results, to the fouth power. Data will be accepted.

Corrective Action

Name	Date	Corrective Action
Pam Anderson	02/14/2007	None at this time.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note
	Response	Response Note			

Quality Assurance Verification

Verified By	Due Date	Status	Notes
		This section not yet completed by QA.	

Approval History

Date Approved	Approved By	Position

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/12/2007 2:48:09 PM

Lot No., Due Date: J7A200173,J7A230129,J7A230125; 03/05/2007,03/08/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7026384; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05099; WATER

1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes ✓	No	N/A
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes ✓	No	N/A
2.2 Are the QC appropriate for the analysis included in the batch?	Yes ✓	No	N/A
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes ✓	No	N/A
2.4 Does the Worksheets include a Tracer Vial label for each sample?	Yes ✓	No	N/A
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.2 Is the LCS result, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No	N/A ✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	Yes ✓	No	N/A
3.5 Are the sample yields and MDAs within contract limits?	Yes ✓	No	N/A
4.0 Raw Data			
4.1 Were results calculated in the correct units?	Yes ✓	No	N/A
4.2 Were analysis volumes entered correctly?	Yes ✓	No	N/A
4.3 Were Yields entered correctly?	Yes ✓	No	N/A
4.4 Were spectra reviewed/meet contractual requirements?	Yes ✓	No	N/A
4.5 Were raw counts reviewed for anomalies?	Yes ✓	No	N/A
5.0 Other			
5.1 Are all nonconformances included and noted?	Yes	No	N/A ✓
5.2 Are all required forms filled out?	Yes ✓	No	N/A
5.3 Was the correct methodology used?	Yes ✓	No	N/A
5.4 Was transcription checked?	Yes ✓	No	N/A
5.5 Were all calculations checked at a minimum frequency?	Yes ✓	No	N/A
5.6 Are worksheet entries complete and correct?	Yes ✓	No	N/A

6.0 Comments on any No response:

First Level Review Pam Anderson Date 2.12.07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7026384
W053099

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Sheryl A Adam Date: 2-12-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/22/2007 1:22:52 PM

Lot No., Due Date: J7A220119,J7A230163; 03/05/2007,03/08/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7026400; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05099; WATER

Item	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?	✓		
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?	✓		
4.4 Were spectra reviewed/meet contractual requirements?	✓		
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review [signature] **Date** 2/22/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7026400
W05099

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	/		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	/		
3. Are the correct isotopes reported?	/		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	/		
2. Does the blank result meet the Contract criteria?	/		
3. Is the blank result < the Contract Detection Limit?	/		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			/
5. Is the LCS recovery with contract acceptance criteria?	/		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	/		
8. Do the MS/MSD results and yields meet acceptance criteria?			/
9. Do the duplicate sample results and yields meet acceptance criteria?	/		
C. Other 1. Are all Nonconformances included and noted?			/
2. Are all required forms filled out?	/		/ DAH 2-23-07
3. Was the correct methodology used?	/		
4. Was transcription checked?	/		
5. Were all calculations checked at a minimum frequency?	/		
6. Were units checked?	/		

Comments on any "No" response:

Second Level Review: Sheryl A Adam Date: 2-23-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/5/2007 4:23:18 PM

Lot No., Due Date: J7A200176,J7A220134,J7A230163,J7A230123; 03/05/2007,03/08/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7026396; RTC99 Tc-99 by LSC

SDG, Matrix: W05099; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples Incorrect Tracer/Vial => JM7311AD TCSG<>TCSE Q:V9		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results. OK Calc_IDL Not Calculated	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => TC-99 OK; No Callin Level Found => TC-99	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations.	Yes	No	N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Yes	No	N/A ✓
8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions.)	Yes	No	N/A
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions.)	Yes	No	N/A
8.3 Comments:			
8.31 Results Blank Subtracted as Appropriate. OK	Yes ✓	No	N/A

First Level Review Pam Anderson **Date** 2-5-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7026396
W05099

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	/		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	/		
3. Are the correct isotopes reported?	/		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	/		
2. Does the blank result meet the Contract criteria?	/		
3. Is the blank result < the Contract Detection Limit?	/		
4, Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			/
5. Is the LCS recovery with contract acceptance criteria?	/		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	/		
8. Do the MS/MSD results and yields meet acceptance criteria?			/
9. Do the duplicate sample results and yields meet acceptance criteria?	/		
C. Other 1. Are all Nonconformances included and noted?			/
2. Are all required forms filled out?	/		
3. Was the correct methodology used?	/		
4. Was transcription checked?	/		
5. Were all calculations checked at a minimum frequency?	/		
6. Were units checked?	/		

Comments on any "No" response:

Second Level Review: Sheryl A Adam Date: 2-6-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/7/2007 8:27:51 AM

Lot No., Due Date: J7A230163; 03/08/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7026385; RTRITIUM H-3 by LSC

SDG, Matrix: W05099; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => JM7381AA 5.00<10.00 JM74E1AA 5.00<10.00 JM7401AA 5.00<10.00 JM7421AA 5.00<10.00 Q:VB ok AL 2/7/07		✓	
8.07 The Correct Count Geometry was Used. Count Geometry => JNG0E1AF SVP15/5<>SVP10/10 JNG0E1AG SVP15/5<>SVP10/10 JNG0E1AA SVP15/5<>SVP10/10 JNG0E1AC SVP15/5<>SVP10/10 JNG0E1AD SVP15/5<>SVP10/10 JNG0E1AE SVP15/5<>SVP10/10 JM7381AA SVP15/5<>SVP10/10 JM7381AE SVP15/5<>SVP10/10 JM74E1AA SVP15/5<>SVP10/10 JM7401AA SVP15/5<>SVP10/10 JM7421AA SVP15/5<>SVP10/10 Q:VC ok AL 2/7/07		✓	
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. OK	✓		
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. OK	✓		
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓

8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	Yes ✓	No	N/A
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => H-3 OK; No Callin Level Found => H-3	Yes ✓	No	N/A
8.24 Result + 3s >=0, Not Too Negative. OK	Yes ✓	No	N/A
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!	Yes	No	N/A ✓
8.26 Instruments have Current Calibrations.	Yes	No	N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Yes	No	N/A ✓
8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.3 Comments:			
8.31 Results Blank Subtracted as Appropriate. OK	Yes ✓	No	N/A

First Level Review Angela Long **Date** 2-7-07

2/7/07 Pam Anderson

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7026385
W05099

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response:

Second Level Review: Sheryl A Adam Date: 2-7-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/28/2007 4:16:19 PM

Lot No., Due Date: J7A230163; 03/08/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7026383; RUNAT UNat by KPA

SDG, Matrix: W05099; WATER

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?	✓		
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	✓		
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?	✓		
4.4 Were spectra reviewed/meet contractual requirements?	✓		
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review _____ **Date** 2/28/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7026383
W05099

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	/		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	/		
3. Are the correct isotopes reported?	/		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	/		
2. Does the blank result meet the Contract criteria?	/		
3. Is the blank result < the Contract Detection Limit?	/		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			/
5. Is the LCS recovery with contract acceptance criteria?	/		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	/		
8. Do the MS/MSD results and yields meet acceptance criteria?	/		
9. Do the duplicate sample results and yields meet acceptance criteria?	/		
C. Other 1. Are all Nonconformances included and noted?			/
2. Are all required forms filled out?	/		
3. Was the correct methodology used?	/		
4. Was transcription checked?	/		
5. Were all calculations checked at a minimum frequency?	/		
6. Were units checked?	/		

Comments on any "No" response:

Second Level Review: Sheryl A Adam Date: 3-1-07

SEVERN TRENT STL

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Work Order Number(s): **JM8VH, JM8V0, JM8V2, JNGXQ**

Lab Sample Numbers or SDG: **W05099**

Method/Test/Parameter: **Coliform**

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level Review (✓)
A. Initial Calibration 1. Performed at required frequency with required number of levels?			✓	
2. Correlation coefficient within QC limits?			✓	
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within QC limits?			✓	
4. Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters ≤ reporting limit?			✓	
B. Continuing Calibration 1. CCV analyzed at required frequency and all parameters within QC limits?			✓	
2. CCB analyzed at required frequency and all results ≤ reporting limit?			✓	
C. Sample Analysis 1. Were any samples with concentrations above the linear range for any parameter diluted and reanalyzed?	✓			
2. Were all sample holding times met?	✓			
D. QC Samples 1. All results for the preparation blank below limits?	✓			
2. MS or MS/MSD recoveries within QC limits and %RPD (for MSD) acceptable?			✓	
3. LCS percent recovery within QC limits and %RPD (for LCSD) acceptable?	✓			
4. Analytical spikes within QC limits where applicable?			✓	
5. ICP only: One serial dilution performed per SDG?			✓	
6. ICP only: CRDL standard (CRI or CRA) analyzed at required frequency?			✓	
7. ICP only: Interference check samples (ICSA, ICSAB) and HICAL analyzed at the required frequencies and within QC limits?			✓	

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level Review (✓)
E. Other 1. Are all nonconformances included and noted?	✓			
2. Is the correct date and time of analysis shown?	✓			
3. Did the analyst sign and date the front page of the analytical run?	✓			
4. Correct methodology used?	✓			
5. Transcriptions checked?	✓			
6. Calculations checked at minimum frequency?	✓			
7. Units checked?	✓			

Comments on any "No" response

Analyst: [signature] Date: 2/28/07

Second-Level Review: [signature] Date: 2-28-07

PNNL JTA200173
WO5099
due 03.05.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-019-10

Page 1 of 1

Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I07-019	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100KR4IAM(1/2)-LOI JANUARY 2007	Logbook: HNF-N-506-2	**Ice Chest No.** AFS-04-005 **Temp.**
Shipped To (Lab) Severn Trent Incornorated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol CERCLA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LN79		W	1/18/07	1254	1x20-mL P	Activity Scan	None
B1LN79		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JMSM9	

R. Wall 1/18/07

Relinquished By Fluor Hanford F. M. HALL Print / Sign	Date/Time JAN 18 2007 1510	Received By S. Smith Print / Sign	Date/Time JAN 18 2007 1510
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 01-18-07 1510

Client: POW SDG #: W05099 NA [ ] SAF #: I07-019 NA [ ]

Work Order Number: JTA200123 Chain of Custody # I07-019-10

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [X] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [X] No [ ]
3. Chain of Custody record present? Yes [X] No [ ]
4. Cooler temperature: _____ NA [X] 5. Vermiculite/packing materials is NA [X] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [X] Yes [ ] No [ ]
8. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   _X_appropriate samples labels
9. Samples are:
   _X_in good condition
   _____broken
   _____leaking.
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [X] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed. Yes [X] No [ ]
12. Were any anomalies identified in sample receipt? Yes [ ] No [X]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: S. Smith Date: 01-18-07 1510

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL JTA200176
W05099
Due 03-05-07
Fluor Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-92**

Page 1 of 1

Collector F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	Logbook: HNF-N-506-2	**Ice Chest No.** AFS-01-005 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LNW1		W	1/18/07	1254	1x20-mL P	Activity Scan	None
B1LNW1		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JM5PC	
			J. Wall 1/18/07				

Relinquished By Print: Fluor Hanford F. M. HALL Sign: [signature] Date/Time: JAN 18 2007 1510	Received By Print: S. Smith Sign: S. Smith Date/Time: JAN 18 2007 1510	Matrix *	
Relinquished By Date/Time	Received By Date/Time	S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air	DS = Drum Solid, DL = Drum Liqui, T = Tissue, WI = Wine, L = Liquid, V = Vegetation, X = Other
Relinquished By Date/Time	Received By Date/Time		
Relinquished By Date/Time	Received By Date/Time		

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PNNL 37A2001176
W05099
due 03.05.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-82**

Page 1 of 1

Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	Logbook: HNF-N-506-7	**Ice Chest No.** AFS-04-05 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LNV6		W	1/18/07	1114	1x20-mL P	Activity Scan	None
B1LNV6		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JM5PE	
						D. Wall 1/18/07	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL			JAN 18 2007 1510	S. Smith	S. Smith		JAN 18 2007 1510
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 07·18·07 1510

Client: PGW SDG #: W05099 NA [ ] SAF #: 507-001 NA [ ]

Work Order Number: JTA200176 Chain of Custody # 507-001-92, 82

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition
   _____broken
   _____leaking
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed. Yes [✓] No [ ]
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: K. Smith Date: 07·18·07 1510

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL JTA220119
W05099
Due 03-05-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I07-016-2**

Page 1 of 1

Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I07-016	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2ZP1-LOI, DECEMBER 2006	HNF-N-506-2	**Ice Chest No.** ERC-FS-001 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol CERCLA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LK81		W	1-19-07	1321	1x20-mL P	Activity Scan	None
B1LK81		W	1-19-07	1321	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						JM6FX	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL		JAN 19 2007	1350	ERC	Parry		1-19-07 1350
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil		DS	=	Drum Solid
SE	= Sediment		DL	=	Drum Liqui
SO	= Solid		T	=	Tissue
SL	= Sludge		WI	=	Wipe
W	= Water		L	=	Liquid
O	= Oil		V	=	Vegetation
A	= Air		X	=	Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 1/19/07 1350

Client: PNL SDG #: W05099 NA [ ] SAF #: I07-016 NA [ ]

Work Order Number: JJA220119 Chain of Custody # I07-016-2

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition
   _____broken
   _____leaking
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed. Yes [✓] No [ ]
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: Eva Davis L. Smith Date: 1/19/07 1350

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

PNNL JTA220134
W05099
due 03.05.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-012-420**

Page 1 of 1

Collector K R HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-012	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, DECEMBER 2006	HNF-N-506 3	**Ice Chest No.** **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.

WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LJF6		W	1-19-07	0909	1x20-mL P	Activity Scan	None
B1LJF6		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LJF6		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						TM6JQ	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
K R HULSE			JAN 19 2007 1040	Fluor Hanford	F M HALL		JAN 19 2007 1040
Fluor Hanford F. M. HALL			JAN 19 2007 1350				1350
					ERic Darby		JAN 19 2007

Matrix *

S	= Soil	DS	= Drum Solid		
SE	= Sediment	DL	= Drum Liqui		
SO	= Solid	T	= Tissue		
SL	= Sludge	WI	= Wine		
W	= Water	L	= Liquid		
O	= Oil	V	= Vegetation		
A	= Air	X	= Other		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PNNL 377220134
W05099
Due 03.05.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-012-428**

Page 1 of 1

Collector Fluor Hanford E.M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-012	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, DECEMBER 2006	HNF-N-506-2	**Ice Chest No.** ERC-FS-001 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LJH1		W	1-19-07	1020	1x20-mL P	Activity Scan	None
B1LJH1		W	1-19-07	1020	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

JM6J2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford E.M. HALL		JAN 19 2007	1350	ERIC	Dunlay		1-19-07 1350
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 11/19/07 1350

Client: PNL SDG #: W05099 NA [ ] SAF #: W07-012 NA [ ]

Work Order Number: 07A220134 Chain of Custody # W07-012-420, 428

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   ____✓__appropriate samples labels
9. Samples are:
   ____✓__in good condition
   _____broken
   _____leaking
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: Eva Dandy Date: 11/19/07 1350

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL JTA230123
W05099
Due 03/08/07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-012-334**

Page 1 of 1

Collector K. J. YOUNG	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-012	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, DECEMBER 2006	#NF-N-506-1 p.46	**Ice Chest No.** ROSS **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LJ93		W	01-22-07	1006	1x20-mL P	Activity Scan	None
B1LJ93		W	01-22-07	1006	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JM7NK	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	K. J. YOUNG		01-22-2007 1510	ERIC DARLEY			1-22-07 1510
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil	DS	= Drum Solid		
SE	= Sediment	DL	= Drum Liqui		
SO	= Solid	T	= Tissue		
SL	= Sludge	WI	= Wine		
W	= Water	L	= Liquid		
O	= Oil	V	= Vegetation		
A	= Air	X	= Other		

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 11/22/07 1570

Client: PNL SDG #: W05099 NA [ ] SAF #: W07-012 NA [ ]

Work Order Number: JTA230123 Chain of Custody # W07-012-334

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? 1x500mL NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition
   _____broken
   _____leaking.
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed. Yes [✓] No [ ]
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: Erin Darby Date: 11/22/07 1510

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL 37A230125
W05099
Due 03-08-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I07-021-10**

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I07-021	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2ZP1-LOI JANUARY 2007	HNUS WSCF-506-3	**Ice Chest No.** C-4 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol CERCLA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LPJ8		W	1-22-7	1325	1x20-mL P	Activity Scan	None
B1LPJ8		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JM TPP	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. E. PARCHEN			JAN 2 2 2007 1510	ERIC DARGY			JAN 2 2 2007 1510
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 11/22/07 1510

Client: PNL SDG #: W05099 NA [ ] SAF #: I07-021 NA [ ]

Work Order Number: TA230125 Chain of Custody # I07-021-10

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? 3x NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition
   _____broken
   _____leaking
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed. Yes [✓] No [ ]
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: Eric Daby Date: 11/22/07 1510

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL J7A230129 W05099 Due 03-08-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-64**

Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	Logbook: HNF-N-506-2	**Ice Chest No.** SAWS-115 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LNM1		W	1/22/07	1253	1x20-mL P	Activity Scan	None
B1LNM1		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

JM71V

[signature] 1/22/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D.R. Brewington	[signature]	JAN 22 2007 1510	Eric Darby		[signature]	JAN 22 2007 1510
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil	DS = Drum Solid	SE = Sediment	DL = Drum Liqui
SO = Solid	T = Tissue	SL = Sludge	WI = Wipe
W = Water	L = Liquid	O = Oil	V = Vegetation
A = Air	X = Other		

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PNNL JJA230129
W05099
Due 03.08.07
Fluor Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-65**

Page 1 of 1

Collector D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	logbook: HNF-N-506-2	**Ice Chest No.** SAWS-115 **Temp.**
Shipped To (Lab) Severn Trent Incornorated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LNM2		W	1/22/07	1253	1x20-mL P	Activity Scan	None
B1LNM2		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JM72X	
			L. Wall 1/22/07				

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D.R. Brewington		JAN 22 2007 1520	Eric Darby	Eric Darby		JAN 22 2007 1520
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil		DS	=	Drum Solid
SE	= Sediment		DL	=	Drum Liqui
SO	= Solid		T	=	Tissue
SL	= Sludge		WI	=	Wine
W	= Water		L	=	Liquid
O	= Oil		V	=	Vegetation
A	= Air		X	=	Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 11/22/07 1510

Client: PNL SDG #: W05099 NA [ ] SAF #: S07-001 NA [ ]

Work Order Number: JTA230129 Chain of Custody # S007-001-64,65

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   _____appropriate samples labels
9. Samples are:
   _____in good condition
   _____broken
   _____leaking
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: Ev Darby Date: 11/22/07 1510

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL JTA230163
W05099
due 03-08-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **A07-001-1**

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title LLWMA(4)-PA, JANUARY 2007	HNF-N-506-3	**Ice Chest No.** C-4 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LN27		W	1-22-7	1325	1x20-mL P	Activity Scan	None
B1LN27		W	"	"	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LN27		W	"	"	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JM731	

	Print	Sign	Date/Time
Relinquished By	Fluor Hanford D. E. PARCHEN		JAN 2 2 2007 1510
Received By	Eric Darby		JAN 2 2 2007 1510
Relinquished By			Date/Time
Received By			Date/Time
Relinquished By			Date/Time
Received By			Date/Time
Relinquished By			Date/Time
Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wipe	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

PNNL JTA230163
W05099
Due 03.08.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **A07-001-11**

Page 1 of 1

Collector Fluor Hanford K. J. YOUNG	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title LLWMA(4)-PA, JANUARY 2007	HNF-N-546-1 p 46	**Ice Chest No.** 2055 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LN35		W	01-22-07	1205	1x20-mL P	Activity Scan	None
B1LN35		W	"	"	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LN35		W	"	"	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LN35		W	"	"	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JM138	

Relinquished By: Fluor Hanford K. J. YOUNG Print / Sign	Date/Time: JAN 22 2007 1510	Received By: Print / Sign	Date/Time: 1-22-07 1520
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

PNNL 74230163
W05099
Due 03-08-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **A07-001-17**

Page 1 of 1

Collector Fluor Hanford K. B. HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title LLWMA(4)-PA, JANUARY 2007		**Ice Chest No.** **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LN38		W	1/22/07	1044	1x20-mL P	Activity Scan	None
B1LN38		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LN38		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LN38		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JM 7 4E	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford K. B. HULSE	JAN 22 2007	1510	Eric Dorsey			1-22-07 1510
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil		DS	=	Drum Solid
SE	= Sediment		DL	=	Drum Liqui
SO	= Solid		T	=	Tissue
SL	= Sludge		WI	=	Wine
W	= Water		L	=	Liquid
O	= Oil		V	=	Vegetation
A	= Air		X	=	Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PNNL JTA230163
W05099
Due 03-08-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **A07-001-25**

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title LLWMA(4)-PA, JANUARY 2007	HNF-N-506-3	**Ice Chest No.** C-4 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LN42		W	1-22-07	1139	1x20-mL P	Activity Scan	None
B1LN42		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LN42		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LN42		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LN42		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JM740	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. E. PARCHEN			JAN 2 2 2007 1510	Eric Darby			JAN 2 2 2007 1510
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil		DS	=	Drum Solid
SE	= Sediment		DL	=	Drum Liqui
SO	= Solid		T	=	Tissue
SL	= Sludge		WI	=	Wine
W	= Water		L	=	Liquid
O	= Oil		V	=	Vegetation
A	= Air		X	=	Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PNNL JTA 230163
WO5099
D.E. PARCHEN due 03-08-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **A07-001-26**

Page 1 of 1

Collector	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title LLWMA(4)-PA, JANUARY 2007	LLW-SW-506 3	**Ice Chest No.** C4 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LN43		W	1-22-07	0800	1x20-mL P	Activity Scan	None
B1LN43		W	"	"	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LN43		W	"	"	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LN43		W	"	"	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LN43		W	"	"	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JM742	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D.E. PARCHEN			1510 JAN 22 2007	ERIC DARLEY			1510 JAN 22 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil		DS	=	Drum Solid
SE	= Sediment		DL	=	Drum Liqui
SO	= Solid		T	=	Tissue
SL	= Sludge		WI	=	Wipe
W	= Water		L	=	Liquid
O	= Oil		V	=	Vegetation
A	= Air		X	=	Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 1/22/07 1510

Client: PNL SDG #: W05099 NA [ ] SAF #: A07-001 NA [ ]

Work Order Number: JTA230163 Chain of Custody # A07-001-1,11,17,25,26

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5 Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 5
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition
   _____broken
   _____leaking
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed. Yes [✓] No [ ]
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: Eric Duby Date: 1/22/07 1510

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

PNNL 37A230259
W05099
Due 03.09.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-011-574

Page 1 of 1

Collector Fluor Hanford K. B. HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-011	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, NOVEMBER 2006	HNF-N-506-4	**Ice Chest No.** TJ-2 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L6H6		W	1/23/7	1036	1x20-mL P	Activity Scan	None
B1L6H6		W	↓	↓	1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool 4C
						JM 8VH	

Relinquished By Print: Fluor Hanford K. B. HULSE Sign: K B Hulse Date/Time: JAN 23 2007 1405	Received By Print: A. Smith Sign: S. Smith Date/Time: JAN 23 2007 1405	Matrix *
Relinquished By Date/Time	Received By Date/Time	S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air, DS = Drum Solid, DL = Drum Liqui, T = Tissue, WI = Wine, L = Liquid, V = Vegetation, X = Other
Relinquished By Date/Time	Received By Date/Time	
Relinquished By Date/Time	Received By Date/Time	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PNNL J7A230259 W05099 due 03.09.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-011-580**

Page 1 of 1

Collector Fluor Hanford K. B. HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-011	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, NOVEMBER 2006	HNF-N-506-4	**Ice Chest No.** TJ-2 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L6J0		W	1/23/7	0951	1x20-mL P	Activity Scan	None
B1L6J0		W	↓	↓	1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool 4C
						JM8V0	

Relinquished By Fluor Hanford K. B. HULSE Print / Sign JAN 23 2007	Date/Time 1405	Received By S. Smith Print / Sign JAN 23 2007	Date/Time 1405
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

PNNL JTA230259
WO5099
Due 03-09-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-011-546**

Page 1 of 1

Collector Fluor Hanford K. B. HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-011	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, NOVEMBER 2006	HHF-N-506-4	**Ice Chest No.** TJ 2 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L6D8		W	1/23/7	0901	1x20-mL P	Activity Scan	None
B1L6D8		W	↓	↓	1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool 4C
						JM8V2	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE	K B Hulse	JAN 2 3 2007	1405	S Smith	S Smith	JAN 2 3 2007	1405
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 01.23.07 1405

Client: PGW SDG #: W05099 NA [ ] SAF #: W07-011 NA [ ]

Work Order Number: JJA230259 Chain of Custody # W07-011-514, 580, 546

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [X] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [X] No [ ]
3. Chain of Custody record present? Yes [X] No [ ]
4. Cooler temperature: _____ NA [X] 5. Vermiculite/packing materials is NA [X] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 3
7. Sample holding times exceeded? NA [X] Yes [ ] No [ ]
8. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   [X] appropriate samples labels
9. Samples are:
   [X] in good condition
   _____broken
   _____leaking
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [X] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed. Yes [X] No [ ]
12. Were any anomalies identified in sample receipt? Yes [ ] No [X]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: S. Smith Date: 01.23.07 1405

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL JIA230265
W05099
Due 03-09-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-012-588**

Page 1 of 1

Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-012	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, DECEMBER 2006	HNF-N-506 3	**Ice Chest No.** GW0-06-8 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.

WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LBT8		W	1-23-07	1372	1x20-mL P	Activity Scan	None
B1LBT8		W	"	"	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						JM820	

Relinquished By Fluor Hanford F. M. HALL Print / Sign	Date/Time 1400 JAN 23 2007	Received By Eric Darby Print / Sign	Date/Time 1400 JAN 23 2007
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PNNL 37A230265
W05099
Due 03.09.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-012-538**

Page 1 of 1

Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-012	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, DECEMBER 2006	HNF-N-506 3	**Ice Chest No.** CWO-06-E **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.

WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LC67		W	1-23-07	1231	1x20-mL P	Activity Scan	None
B1LC67		W	"	"	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						JM822	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL			1400 JAN 23 2007	Eric Dorby	Eric Dorby		1400 JAN 23 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wipe	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

STL

Sample Check-in List

Date/Time Received: 11/23/07 1400

Client: PNL SDG #: W05099 NA [ ] SAF #: S07-012 NA [ ]

Work Order Number: J7A230265 Chain of Custody # S07-012, 538, 588

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition
   _____broken
   _____leaking
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed. Yes [✓] No [ ]
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: Eve Darby Date: 11/23/07 1400

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

2/14/2007 10:44:10 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AZ Gross Alpha PrpRC5014
S7 Gross Alpha by GPC using Am-241 curve
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/05/2007

Sep1 DT/Tm Tech:

Batch: 7026401 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7026396 FPS5, 7026401 AZS7, 7026402 BCS8,

Prep Tech: BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 **JM6JQ-1-AA** J7A220134-1-SAMP 01/19/2007 09:09	110.80g,in	AmtRec: 20ML,500ML,LP	#Containers: 3					Scr: Alpha: 1.33E-03 uCi/Sa	2.0E-01L	Beta: 2.28E-04 uCi/Sa
2 **JM6JQ-1-AE-X** J7A220134-1-DUP 01/19/2007 09:09	113.40g,in	AmtRec: 20ML,500ML,LP	#Containers: 3					Scr: Alpha: 1.33E-03 uCi/Sa	2.0E-01L	Beta: 2.28E-04 uCi/Sa
3 **JM6JQ-2-AA** J7A220134-1-SAMP 01/19/2007 09:09	110.8g	AmtRec: 20ML,500ML,LP	36.3	100min			1JB	Scr: Alpha: 1.33E-03 uCi/Sa	2.0E-01L	Beta: 2.28E-04 uCi/Sa
4 **JM6JQ-2-AE-X** J7A220134-1-DUP 01/19/2007 09:09	113.4	AmtRec: 20ML,500ML,LP	#Containers: 3	37.7			1SC	Scr: Alpha: 1.33E-03 uCi/Sa	2.0E-01L	Beta: 2.28E-04 uCi/Sa
5 **JNG09-1-AA-B** J7A260000-401-BLK 01/19/2007 09:09	202.80g,in	AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
6 **JNG09-1-AC-C** J7A260000-401-LCS 01/19/2007 09:09	205.00g,in	AmtRec:	ASD4116 01/18/07,pd 02/09/06,r #Containers: 1					Scr:	Alpha:	Beta:

D43 2/14/07

CAREFUL High in Beta

Sample Preparation/Analysis

AZ Gross Alpha PrpRC5014
S7 Gross Alpha by GPC using Am-241 curve
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 03/05/2007

Sep1 DT/Tm Tech:

Batch: 7026401 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

Comments: JM6JQ-SAMP "Comments. Aliquots reduced due to weight screen activity. JB 02/02/07"

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JM6JQ1AA-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:

JNG091AA-BLK:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:

JNG091AC-LCS:

Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

JM6JQ1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JNG091AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JNG091AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

2/2/2007 9:23:36 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory , Pacific Northwest National Lab

BC Gross Beta PrpRC5014
S8 Gross Beta by GPC using Sr/Y-90 curve
5I CLIENT: HANFORD

Pipet #: 235

AnalyDueDate: 03/05/2007 W05099

Sep1 DT/Tm Tech:

Batch: 7026402 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ / APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JM6JQ-1-AC J7A220134-1-SAMP 01/19/2007 09:09	125.10g,in AmtRec: 20ML,500ML,LP	#Containers: 3		1.5	127.1	100	JLA	1544	2/13/07	Scr: Alpha: 1.33E-03 uCi/Sa 2.0E-01L Beta: 2.28E-04 uCi/Sa
2 JM6JQ-1-AF-X J7A220134-1-DUP 01/19/2007 09:09	125.10g,in AmtRec: 20ML,500ML,LP	#Containers: 3			116.4		JLB			Scr: Alpha: 1.33E-03 uCi/Sa 2.0E-01L Beta: 2.28E-04 uCi/Sa
3 JNG1A-1-AA-B J7A260000-402-BLK 01/19/2007 09:09	200.30g,in AmtRec:	#Containers: 1			0.2		JLC			Scr: Alpha: Beta:
4 JNG1A-1-AC-C J7A260000-402-LCS 01/19/2007 09:09	200.20g,in AmtRec:	#Containers: 1	BESB2996 01/23/07,pd 08/08/06,r		0.4		JLD			Scr: Alpha: Beta:

Comments: Aliquots reduced due to weight screen activity. JB 2-2-07
PH <2.0 JB 2-2-07

10% collidon added to ea. samp. 2/13/07 APA

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JM6JQ1AC-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JNG1A1AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JNG1A1AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

JM6JQ1AC-SAMP Calc Info:

2/9/2007 2:21:39 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory , Pacific Northwest National Lab

CL Sr-90 Prp/SepRC5006(5071)
TL Sr-85 by Nal and Sr-90 by GPC 7 day ingrowth
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/05/2007

Sep1 DT/Tm Tech: 02/02/2007 16:21,ManisD

Batch: 7026384 **WATER** **pCi/L**

PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 02/09/2007 08:45,ManisD

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JM5M9-1-AA J7A200173-1-SAMP		1003.50g,in	srtb14462 01/24/07,pd 09/11/06,r		1.0	22.9	100	2b 2A	1059 1012	2/10/07 R 2/11/07 R	
01/18/2007 12:54		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: 1.24E-04 uCi/Sa		Beta: -1.83E-04 uCi/Sa
2 JM7PP-1-AA J7A230125-1-SAMP		1000.60g,in	srtb14463 01/24/07,pd 09/11/06,r		1.0	23.1	100	2c 2c	1059 1012	2/10/07 R 2/11/07 R	
01/22/2007 13:25		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: -3.42E-04 uCi/Sa		Beta: 3.82E-04 uCi/Sa
3 JM71V-1-AA J7A230129-1-SAMP		1006.20g,in	srtb14464 01/24/07,pd 09/11/06,r		1.0	23.5	100	2d 2d	1059 1012	2/10/07 R 2/11/07 R	
01/22/2007 12:53		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: -3.23E-04 uCi/Sa		Beta: 2.40E-04 uCi/Sa
4 JM71V-1-AC-X J7A230129-1-DUP		1007.40g,in	srtb14465 01/24/07,pd 09/11/06,r		1.0	24.7	100	3A 3A	1059 1012	2/10/07 R 2/11/07 R	
01/22/2007 12:53		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: -3.23E-04 uCi/Sa		Beta: 2.40E-04 uCi/Sa

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory , Pacific Northwest National Lab

AnalyDueDate: 03/05/2007

CL Sr-90 Prp/SepRC5006(5071)
TL Sr-85 by Nal and Sr-90 by GPC 7 day ingrowth
5I CLIENT: HANFORD

Batch: 7026384 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Balance Id:1120482733

Pipet #: _____

Sep1 DT/Tm Tech: 02/02/2007 16:21,ManisD

Sep2 DT/Tm Tech: 02/09/2007 08:45,ManisD

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 JM72X-1-AA J7A230129-2-SAMP		1005.10g,in	srtb14466 01/24/07,pd 09/11/06,r		1.0	24.4	100		3b	1059 2/10/07 K	
									3b	1012 2/11/07 K	
						02/02/2007 16:21;s1, 02/09/2007					
01/22/2007 12:53		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: -5.70E-04 uCi/Sa		Beta: 2.40E-04 uCi/Sa
6 JNGX3-1-AA-B J7A260000-384-BLK		1000.40g,in	srtb14467 01/24/07,pd 09/11/06,r		1.0	23.9	100		3c	1059 2/10/07 K	
									3c	1012 2/11/07 K	
						02/02/2007 16:21;s1, 02/09/2007					
01/22/2007 12:53		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:
7 JNGX3-1-AC-C J7A260000-384-LCS		999.20g,in	srsg1310 12/20/06,pd 09/11/06,r		1.0	23.7	100		3d	1059 2/10/07 K	
									3d	1012 2/11/07 K	
						02/02/2007 16:21;s1, 02/09/2007					
01/22/2007 12:53		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:

Comments:

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JM5M91AA-SAMP Constituent List:
Sr-85 RDL: pCi/L LCL:20 UCL:105 RPD:20 Sr-90 RDL:2 pCi/L LCL:70 UCL:130 RPD:20

2/15/2007 12:26:40 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory , Pacific Northwest National Lab

BN I-129 Prp/SepRC5025
TB Gamma by LEPD
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/05/2007 W050919

Sep1 DT/Tm Tech:

Batch: 7026400 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JM6FX-1-AA J7A220119-1-SAMP	3954.10g,in	ITA6013 01/17/07			37.1	100	L2	1614	2/21/07 R	
01/19/2007 13:21	AmtRec: 20ML,2X4LP	#Containers: 3					Scr:	Alpha: -1.62E-03 uCi/Sa		Beta: 1.39E-03 uCi/Sa
2 JM731-1-AA J7A230163-1-SAMP	3917.60g,in	ITA6014 01/17/07			35.9		L4	1618		
01/22/2007 13:25	AmtRec: 20ML,500ML,2X4LP	#Containers: 4					Scr:	Alpha: 1.70E-04 uCi/Sa		Beta: -1.02E-03 uCi/Sa
3 JM731-1-AE-X J7A230163-1-DUP	3902.40g,in	ITA6015 01/17/07			35.1		RS 2/21/07 L4	L5 1619		
01/22/2007 13:25	AmtRec: 20ML,500ML,2X4LP	#Containers: 4					Scr:	Alpha: 1.70E-04 uCi/Sa		Beta: -1.02E-03 uCi/Sa
4 JM738-1-AC J7A230163-2-SAMP	3919.00g,in	ITA6016 01/17/07			37.0		L2	1805	2/21/07 DD	
01/22/2007 12:05	AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5					Scr:	Alpha: -7.69E-04 uCi/Sa		Beta: 1.77E-03 uCi/Sa
5 JM74E-1-AC J7A230163-3-SAMP	3909.90g,in	ITA6017 01/17/07			36.2		L4	1809		
01/22/2007 10:44	AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5					Scr:	Alpha: 9.34E-04 uCi/Sa		Beta: -1.25E-03 uCi/Sa
6 JM740-1-AC J7A230163-4-SAMP	3842.40g,in	ITA6018 01/17/07			35.8		L5	1811		
01/22/2007 11:39	AmtRec: 20ML,2X500ML,LP,2X4LP	#Containers: 6					Scr:	Alpha: 1.05E-03 uCi/Sa		Beta: 1.15E-03 uCi/Sa
7 JM742-1-AC J7A230163-5-SAMP	3824.40g,in	ITA6019 01/17/07			35.9		L2	1956		
01/22/2007 08:00	AmtRec: 20ML,2X500ML,LP,2X4LP	#Containers: 6					Scr:	Alpha: -6.13E-04 uCi/Sa		Beta: 4.47E-04 uCi/Sa

Sample Preparation/Analysis

BN I-129 Prp/SepRC5025
TB Gamma by LEPD
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 03/05/2007

Sep1 DT/Tm Tech:

Batch: 7026400 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JNG08-1-AA-B J7A260000-400-BLK 01/22/2007 13:25	AmtRec:	3997.80g,in	ITA6020 01/17/07 #Containers: 1		36.3	100	L4 Scr:	2002 Alpha:	2/21/07 JD Beta:	
9 JNG08-1-AC-C J7A260000-400-LCS 01/22/2007 13:25	AmtRec:	3870.10g,in	ISD0726 12/20/06 #Containers: 1		39.4		L5 Scr:	2002 Alpha:	 Beta:	

Comments: PH < 2.0 DB 2-15-07

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JM6FX1AA-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
JNG081AA-BLK:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
JNG081AC-LCS:
I-129 RDL:5 pCi/L LCL:70 UCL:130 RPD:20

JM6FX1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNG081AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNG081AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

2/1/2007 11:10:02 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory , Pacific Northwest National Lab

FP Tc-99 Prp/SepRC5065
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/05/2007 W05099

Sep1 DT/Tm Tech:

Batch: 7026396 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JM5PC-1-AA J7A200176-1-SAMP 01/18/2007 12:54			125.20g,in	125.20g						
	AmtRec: 20ML,500ML		#Containers: 2					Scr:	Alpha: 5.31E-05 uCi/Sa	Beta: -5.39E-05 uCi/Sa
2 JM5PE-1-AA J7A200176-2-SAMP 01/18/2007 11:14			126.30g,in	126.30g						
	AmtRec: 20ML,500ML		#Containers: 2					Scr:	Alpha: 1.43E-05 uCi/Sa	Beta: -4.82E-05 uCi/Sa
3 JM6JQ-1-AD J7A220134-1-SAMP 01/19/2007 09:09			125.00g,in	125.00g						
	AmtRec: 20ML,500ML,LP		#Containers: 3					Scr:	Alpha: 1.33E-03 uCi/Sa 2.0E-01L	Beta: 2.28E-04 uCi/Sa
4 JM6J2-1-AA J7A220134-2-SAMP 01/19/2007 10:20			124.90g,in	124.90g						
	AmtRec: 20ML,500ML		#Containers: 2					Scr:	Alpha: -1.32E-05 uCi/Sa	Beta: 2.25E-05 uCi/Sa
5 JM7NK-1-AA J7A230123-1-SAMP 01/22/2007 10:06			125.30g,in	125.30g						
	AmtRec: 20ML,500MLP		#Containers: 2					Scr:	Alpha: -7.78E-05 uCi/Sa	Beta: 8.69E-05 uCi/Sa
6 JM731-1-AC J7A230163-1-SAMP 01/22/2007 13:25			126.00g,in	126.00g						
	AmtRec: 20ML,500ML,2X4LP		#Containers: 4					Scr:	Alpha: 1.70E-04 uCi/Sa	Beta: -1.02E-03 uCi/Sa
7 JM731-1-AD-S J7A230163-1-MS 01/22/2007 13:25			126.70g,in	126.70g	tcsg1763 01/03/07,pd 01/10/06,r					
	AmtRec: 20ML,500ML,2X4LP		#Containers: 4					Scr:	Alpha: 1.70E-04 uCi/Sa	Beta: -1.02E-03 uCi/Sa

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 03/05/2007

FP Tc-99 Prp/SepRC5065
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Batch: 7026396 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Balance Id:1120482733
Pipet #: _____
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,BockJ

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JM738-1-AD J7A230163-2-SAMP 01/22/2007 12:05			128.00g,in AmtRec: 20ML,500ML,LP,2X4LP #Containers: 5	128.00g		60		Scr: Alpha: -7.69E-04 uCi/Sa Beta: 1.77E-03 uCi/Sa		
9 JM738-1-AF-X J7A230163-2-DUP 01/22/2007 12:05			124.90g,in AmtRec: 20ML,500ML,LP,2X4LP #Containers: 5	124.90g				Scr: Alpha: -7.69E-04 uCi/Sa Beta: 1.77E-03 uCi/Sa		
10 JM74E-1-AD J7A230163-3-SAMP 01/22/2007 10:44			125.00g,in AmtRec: 20ML,500ML,LP,2X4LP #Containers: 5	125.00g				Scr: Alpha: 9.34E-04 uCi/Sa Beta: -1.25E-03 uCi/Sa		
11 JM740-1-AD J7A230163-4-SAMP 01/22/2007 11:39			125.00g,in AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6	125.00g				Scr: Alpha: 1.05E-03 uCi/Sa Beta: 1.15E-03 uCi/Sa		
12 JM742-1-AD J7A230163-5-SAMP 01/22/2007 08:00			125.70g,in AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6	125.70g				Scr: Alpha: -6.13E-04 uCi/Sa Beta: 4.47E-04 uCi/Sa		
13 JNG06-1-AA-B J7A260000-396-BLK 01/22/2007 13:25			202.10g,in AmtRec: #Containers: 1	202.10g				Scr: Alpha: Beta:		
14 JNG06-1-AC-C J7A260000-396-LCS 01/22/2007 13:25			201.70g,in AmtRec: #Containers: 1	201.70g	tcse2064 01/24/07,pd 01/10/06,r			Scr: Alpha: Beta:		

Sample Preparation/Analysis

FP Tc-99 Prp/SepRC5065
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 03/05/2007

Batch: 7026396 **pCi/L**
SEQ Batch, Test: None

Balance Id:
Pipet #: _____
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 JNG06-1-AD-BN J7A260000-396-IBLK 01/22/2007 13:25		AmtRec:	#Containers: 1			60			Scr: Alpha: Beta:	
16 JNG06-1-AE-BX J7A260000-396-MBLK 01/22/2007 13:25	Not needed Unn 2/1/07	AmtRec:	#Containers: 1						Scr: Alpha: Beta:	
17 JNG06-1-AF-BN J7A260000-396-IBLK 01/22/2007 13:25		AmtRec:	#Containers: 1						Scr: Alpha: Beta:	

Comments: pH < 2.0 JB 2-1-07

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JM5PC1AA-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
JM7311AD-MS:

JNG061AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
JNG061AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
JNG061AD-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
JNG061AE-MBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
JNG061AF-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

1/26/2007 4:36:56 PM

Sample Preparation/Analysis

Balance Id: 17445

384868, Pacific Northwest National Laboratory , Pacific Northwest National Lab

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 03/08/2007 W05099

Sep1 DT/Tm Tech: 22-0700

Batch: 7026385 WATER pCi/L PM, Quote: SA , 57671

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JM738-1-AA J7A230163-2-SAMP 01/22/2007 12:05	AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5		Scr:	Alpha:		Beta:	
2 JM738-1-AE-X J7A230163-2-DUP 01/22/2007 12:05	AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5		Scr:	Alpha:		Beta:	
3 JM74E-1-AA J7A230163-3-SAMP 01/22/2007 10:44	AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5		Scr:	Alpha:		Beta:	
4 JM740-1-AA J7A230163-4-SAMP 01/22/2007 11:39	AmtRec: 20ML,2X500ML,LP,2X4LP	#Containers: 6		Scr:	Alpha:		Beta:	
5 JM742-1-AA J7A230163-5-SAMP 01/22/2007 08:00	AmtRec: 20ML,2X500ML,LP,2X4LP	#Containers: 6		Scr:	Alpha:		Beta:	
6 JNG0E-1-AA-B J7A260000-385-BLK 01/22/2007 12:05	AmtRec:	#Containers: 1		Scr:	Alpha:		Beta:	
7 JNG0E-1-AC-C J7A260000-385-LCS 01/22/2007 12:05	AmtRec:	#Containers: 1		Scr:	Alpha:		Beta:	

1/26/2007 4:37:00 PM

Sample Preparation/Analysis

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 03/08/2007

Batch: 7026385 pCi/L
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: J Z Olson
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JNG0E-1-AD-BX J7A260000-385-MBLK 01/22/2007 12:05	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
9 JNG0E-1-AE-CM J7A260000-385-MLCS 01/22/2007 12:05	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
10 JNG0E-1-AF-BN J7A260000-385-IBLK 01/22/2007 12:05	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
11 JNG0E-1-AG-BN J7A260000-385-IBLK 01/22/2007 12:05	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JM7381AA-SAMP Constituent List:

H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20

JNG0E1AA-BLK:

H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:

JNG0E1AC-LCS:

H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20

JNG0E1AD-MBLK:

H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:

Sample Preparation/Analysis

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 03/08/2007

Batch: 7026385 pCi/L
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 2-2-07 0m
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

JNG0E1AE-MLCS:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
JNG0E1AF-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
JNG0E1AG-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:

JM7381AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNG0E1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNG0E1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNG0E1AD-MBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNG0E1AE-MLCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNG0E1AF-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNG0E1AG-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

2/19/2007 9:01:36 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory , Pacific Northwest National Lab

DH UNat_Laser PrpRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/08/2007

Sep1 DT/Tm Tech:

Batch: 7026383 WATER ug/L PM, Quote: SA , 57671

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ / APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 **JM740-1-AE** J7A230163-4-SAMP 01/22/2007 11:39	25.40g,in							
	AmtRec: 20ML,2X500ML,LP,2X4LP	#Containers: 6			Scr:	Alpha: 1.05E-03 uCi/Sa		Beta: 1.15E-03 uCi/Sa
2 **JM740-1-AF-S** J7A230163-4-MS 01/22/2007 11:39	24.80g,in	UNSF3577 01/31/07,pd 03/22/05,r						
	AmtRec: 20ML,2X500ML,LP,2X4LP	#Containers: 6			Scr:	Alpha: 1.05E-03 uCi/Sa		Beta: 1.15E-03 uCi/Sa
3 **JM742-1-AE** J7A230163-5-SAMP 01/22/2007 08:00	25.50g,in							
	AmtRec: 20ML,2X500ML,LP,2X4LP	#Containers: 6			Scr:	Alpha: -6.13E-04 uCi/Sa		Beta: 4.47E-04 uCi/Sa
4 **JM742-1-AF-X** J7A230163-5-DUP 01/22/2007 08:00	27.30g,in							
	AmtRec: 20ML,2X500ML,LP,2X4LP	#Containers: 6			Scr:	Alpha: -6.13E-04 uCi/Sa		Beta: 4.47E-04 uCi/Sa
5 **JNGXV-1-AA-B** J7A260000-383-BLK 01/22/2007 11:39	25.20g,in							
	AmtRec:	#Containers: 1			Scr:	Alpha:		Beta:
6 **JNGXV-1-AC-C** J7A260000-383-LCS 01/22/2007 11:39	25.20g,in	UNSF3578 01/31/07,pd 03/22/05,r						
	AmtRec:	#Containers: 1			Scr:	Alpha:		Beta:
7 **JNGXV-1-AD-C** J7A260000-383-LCS 01/22/2007 11:39	25.30g,in	UNSC1480 01/10/07,pd 04/28/06,r						
	AmtRec:	#Containers: 1			Scr:	Alpha:		Beta:

1/26/2007 4:36:46 PM

Sample Preparation/Analysis

Balance Id:

384868, Pacific Northwest National Laboratory , Pacific Northwest National Lab

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
IZ COLIFORM BY METHOD 9223
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 03/09/2007 005099

Sep1 DT/Tm Tech:

Batch: 7026382 WATER

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JM8VH-1-AA J7A230259-1-SAMP 01/23/2007 10:36		AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
2 JM8V0-1-AA J7A230259-2-SAMP 01/23/2007 09:51		AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
3 JM8V0-1-AC-X J7A230259-2-DUP 01/23/2007 09:51		AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
4 JM8V2-1-AA J7A230259-3-SAMP 01/23/2007 09:01		AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
5 JNGXQ-1-AA-B J7A260000-382-BLK 01/23/2007 09:51		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 JNGXQ-1-AC-C J7A260000-382-LCS 01/23/2007 09:51		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Sample Preparation/Analysis

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
IZ COLIFORM BY METHOD 9223
5I CLIENT: HANFORD

AnalyDueDate: 03/09/2007

Batch: 7026382
SEQ Batch, Test: None

Balance Id:
Pipet #: _____
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

Comments:

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JM8VH1AA-SAMP Constituent List:

JNGXQ1AA-BLK:

JNGXQ1AC-LCS:

JM8VH1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNGXQ1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNGXQ1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

RQC050

Severn Trent Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 2/28/07
Time: 11:59:35

STL Richland

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: IZ COLIFORM BY METHOD 9223
QC BATCH #: **7026382**
PREP DATE: 1/26/07
COMP DATE: 1/26/07
USER: MILLERK2

INITIALS:
PREP _____
ANAL _____

DATA ENTRY:
INITIALS _____
DATE _____

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JM8VH-1-AA	J-7A230259-001	XX I 88 IZ 5I	E	<1	B1L6H6
JM8V0-1-AA	J-7A230259-002	XX I 88 IZ 5I	E	<1	B1L6J0
JM8V0-1-AC	J-7A230259-002-X	XX I 88 IZ 5I	E	<1	B1L6J0 DUP
JM8V2-1-AA	J-7A230259-003	XX I 88 IZ 5I	E	<1	B1L6D8
JNGXQ-1-AA	J-7A260000-382-B	XX I 88 IZ 5I		<1	INTRA-LAB BLANK
JNGXQ-1-AC	J-7A260000-382-C	XX I 88 IZ 5I		13.5	INTRA-LAB CHECK

Control Limits

(0-0)

2/28/07

2/14/2007 1:26:48 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/14/2006, 2/19/2007, Batch: '7026401', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7026401						
AC		CalcC	BockJ	2/2/2007 9:24:06 AM		
SC			andersonp	IsBatched	1/26/2007 4:38:03 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/2/2007 9:24:06 AM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	2/2/2007 9:27:57 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	InPrep2	2/12/2007 11:43:43 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	Prep2C	2/13/2007 1:57:39 PM	RICH-RC-5014 REVISION 6
SC			BlackCL	InCnt1	2/13/2007 2:00:54 PM	RICH-RD-0003 REVISION 4
SC			DAWKINSO	CalcC	2/13/2007 7:28:23 PM	RICH-RD-0003 REVISION 4
SC			BlackCL	InCnt1	2/14/2007 10:52:02 AM	RICH-RD-0003 REVISION 4
SC			StringerR	CalcC	2/14/2007 12:53:54 PM	RICH-RD-0003 REVISION 4
AC			BockJ	2/2/2007 9:27:57 AM		
AC			BockJ	2/2/2007 9:28:40 AM		
AC			AshworthA	2/12/2007 11:43:43		
AC			AshworthA	2/13/2007 1:57:39 PM		
AC			BlackCL	2/13/2007 2:00:54 PM		
AC			DAWKINSO	2/13/2007 7:28:23 PM		
AC			BlackCL	2/14/2007 10:52:02		
AC			StringerR	2/14/2007 12:53:54		

AC: Accepting Entry; SC: Status Change

2/14/2007 11:08:35 AM

ICOC Fraction Transfer/Status Report

ByDate: 2/14/2006, 2/19/2007, Batch: '7026402', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7026402						
AC		CalcC	BockJ	2/2/2007 9:18:51 AM		
SC			andersonp	IsBatched	1/26/2007 4:38:03 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/2/2007 9:18:51 AM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	2/2/2007 9:23:42 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	InPrep2	2/12/2007 11:43:50 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	Prep2C	2/13/2007 1:57:50 PM	RICH-RC-5014 REVISION 6
SC			BlackCL	InCnt1	2/13/2007 2:00:58 PM	RICH-RD-0003 REVISION 4
SC			DAWKINSO	CalcC	2/13/2007 7:28:40 PM	RICH-RD-0003 REVISION 4
AC			BockJ	2/2/2007 9:23:42 AM		
AC			BockJ	2/2/2007 9:28:52 AM		
AC			AshworthA	2/12/2007 11:43:50		
AC			AshworthA	2/13/2007 1:57:50 PM		
AC			BlackCL	2/13/2007 2:00:58 PM		
AC			DAWKINSO	2/13/2007 7:28:40 PM		

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 2/12/2006, 2/17/2007, Batch: '7026384', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7026384							
AC			CalcC	BockJ	2/1/2007 9:11:20 AM		
SC				andersonp	IsBatched	1/26/2007 4:36:25 PM	ICOC_RADCALC v4.8.26
SC				BockJ	InPrep	2/1/2007 9:11:20 AM	rich-rc-5016 rEVISION 6
SC				BockJ	Prep1C	2/1/2007 9:28:32 AM	RICH-RC-5016 REVISION 6
SC				ManisD	InSep1	2/1/2007 9:31:39 AM	RICH-RC-5006 REV 6
SC				ManisD	Sep1C	2/2/2007 4:30:42 PM	RICH-RC-5006 REV 6
SC				DAWKINSO	InCnt1	2/2/2007 4:43:13 PM	RICH-RD-0007 REVISION 5
SC				DAWKINSO	Cnt1C	2/2/2007 7:52:09 PM	RICH-RD-0007 REVISION 5
SC				ManisD	Sep2C	2/9/2007 2:23:20 PM	RICH-RC-5071 REV 4
SC				StringerR	InCnt1	2/9/2007 2:25:12 PM	RICH-RD-0003 REVISION 4
SC				StringerR	CalcC	2/11/2007 11:45:45 AM	RICH-RD-0003 REVISION 4
AC				BockJ	2/1/2007 9:28:32 AM		
AC				BockJ	2/1/2007 9:28:41 AM		
AC				ManisD	2/1/2007 9:31:39 AM		
AC				ManisD	2/2/2007 4:30:42 PM		
AC				DAWKINSO	2/2/2007 4:43:13 PM		
AC				DAWKINSO	2/2/2007 7:52:09 PM		
AC				ManisD	2/9/2007 2:23:20 PM		
AC				StringerR	2/9/2007 2:25:12 PM		
AC				StringerR	2/9/2007 2:25:38 PM		
AC				StringerR	2/11/2007 11:45:45		

AC: Accepting Entry; SC: Status Change

2/22/2007 1:22:20 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/22/2006, 2/27/2007, Batch: '7026400', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7026400						
AC		**CalcC**	**BockJ**	2/15/2007 11:55:55		
SC			andersonp	IsBatched	1/26/2007 4:38:03 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/15/2007 11:55:55 AM	rich-rc-5017 rEVISION 5
SC			BockJ	Prep1C	2/15/2007 12:28:03 PM	RICH-RC-5017 REVISION 5
SC			BostedD	InPrep2	2/19/2007 1:14:07 PM	RICHRC5025 REV3
SC			BostedD	Prep2C	2/21/2007 2:12:04 PM	RICHRC5025 REV3
SC			StringerR	InCnt1	2/21/2007 2:32:47 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	CalcC	2/21/2007 8:47:02 PM	RICH-RD-0007 REVISION 5
AC			**BockJ**	2/15/2007 12:27:44		
AC			**BockJ**	2/15/2007 12:28:03		
AC			**BostedD**	2/19/2007 1:14:07 PM		
AC			**BostedD**	2/21/2007 2:11:45 PM		
AC			**BostedD**	2/21/2007 2:12:04 PM		
AC			**StringerR**	2/21/2007 2:32:47 PM		
AC			**DAWKINSO**	2/21/2007 8:47:02 PM		
AC			**DAWKINSO**	2/21/2007 9:10:03 PM		

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 2/5/2006, 2/10/2007, Batch: '7026396', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7026396							
AC			CalcC	BockJ	2/1/2007 10:49:26		
SC				andersonp	IsBatched	1/26/2007 4:38:03 PM	ICOC_RADCALC v4.8.26
SC				BockJ	InPrep	2/1/2007 10:49:26 AM	rich-rc-5016 rEVISION 6
SC				BockJ	Prep1C	2/1/2007 11:02:00 AM	RICH-RC-5016 REVISION 6
SC				HarveyK	Sep1C	2/2/2007 4:31:34 PM	RICH-RC-5065 REV5
SC				DAWKINSO	InCnt1	2/2/2007 4:43:36 PM	RICH-RD-0001 REVISION 3
SC				StringerR	CalcC	2/4/2007 12:50:20 PM	RICH-RD-0001 REVISION 3
AC				BockJ	2/1/2007 11:02:00		
AC				HarveyK	2/2/2007 4:31:34 PM		
AC				DAWKINSO	2/2/2007 4:43:36 PM		
AC				StringerR	2/4/2007 12:50:20 PM		

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 2/7/2006, 2/12/2007, Batch: '7026385', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7026385						
AC		CalcC	McDowellD	2/2/2007 11:23:21		
SC			andersonp	IsBatched	1/26/2007 4:36:25 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	Sep1C	2/2/2007 11:23:21 AM	RICH-RC-5007 REVISION 6
SC			BlackCL	InCnt1	2/2/2007 11:26:05 AM	RICH-RD-0001 REVISION 3
SC			StringerR	CalcC	2/4/2007 12:09:35 PM	RICH-RD-0001 REVISION 3
AC			BlackCL	2/2/2007 11:26:05		
AC			StringerR	2/4/2007 12:09:35 PM		

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 2/28/2006, 3/5/2007, Batch: '7026383', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7026383							
AC			Cnt1C	BockJ	2/1/2007 12:29:48 PM		
SC				andersonp	IsBatched	1/26/2007 4:49:02 PM	ICOC_RADCALC v4.8.26
SC				BockJ	InPrep	2/1/2007 12:29:48 PM	rich-rc-5016 rEVISION 6
SC				BockJ	Prep1C	2/1/2007 12:36:19 PM	RICH-RC-5015 REVISION 4
SC				AntonsonL	InPrep2	2/20/2007 11:32:42 AM	RICH-RC-5015 REVISION 4
SC				AshworthA	InPrep2	2/20/2007 11:33:03 AM	RICH-RC-5015 REVISION 4
SC				AshworthA	Prep2C	2/21/2007 2:17:22 PM	RICH-RC-5015 REVISION 4
SC				AntonsonL	Prep2C	2/21/2007 2:17:34 PM	RICH-RC-5015 REVISION 4
SC				NelsonT	Cnt1C	2/28/2007 2:54:46 PM	RICH-RC-5058 REV 7
AC				**BockJ**	2/1/2007 12:36:19 PM		
AC				**AntonsonL**	2/20/2007 11:32:42		
AC				**AshworthA**	2/20/2007 11:33:03		
AC				**AshworthA**	2/21/2007 2:17:22 PM		
AC				AntonsonL	2/21/2007 2:17:34 PM		
AC				**NelsonT**	2/28/2007 2:54:46 PM		

AC: Accepting Entry; SC: Status Change